PATENT COOPERATION TREATY

From the: INTERNATIONAL SEARCHING AUTHORIT	Υ		
Tò:			PCT
Smoorenburg Patent & Trade Mark Attorneys PO Box 9 KANGAROO GROUND VIC 3097		•	TTEN OPINION OF THE NAL SEARCHING AUTHORITY
<u>.</u>			(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	2 2 DEC 2004
Applicant's or agent's file reference		FOR FURTHER ACTION	
0PPC00590			See paragraph 2 below
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/AU2004/001254	16 September 2004	ļ	14 October 2003
International Patent Classification (IPC) or	both national classifica	ation and IPC	
Int. CL ⁷ G06F 9/445, G06F 15/16	•		
Applicant LIVE MEDIA PTY LTD et al			
Box No. IV Lack of unity of inv Reasoned statement citations and explant Box No. VI Certain documents Box No. VII Certain defects in the	of opinion with regard to vention t under Rule 43 <i>bis</i> .1(a)(i) nations supporting such si	o novelty, inventive step a) with regard to novelty, i tatement	nd industrial applicability nventive step or industrial applicability;
If a demand for international preliminary Preliminary Examining Authority ("IPEA	A") except that this does retified the International Bulered. Sidered to be a written op, with amendments, before 22 months from the prior	not apply where the appli ureau under Rule 66.1 <i>bis</i> sinion of the IPBA, the ap te the expiration of 3 more	nths from the date of mailing of Form
3. For further details, see notes to Form PCT/I	SA/220.		
Name and mailing address of the IPEA/AU		Authorized Officer	
AUSTRALIAN PATENT OFFICE			
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/001254

Bex l	to. I Basis of the opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
. {	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	o. format of material
	in written format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
]	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3. [In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

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Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:
the entire international application
X claims Nos: 11-45, 49, 50, 52-55.
because:
the said international application, or the said claim Nos.
relate to the following subject matter which does not require an international preliminary examination (specify):
the description, claims or drawings (indicate particular elements below) or said claims Nos.
are so unclear that no meaningful opinion could be formed (specify):
the claims, or said claims Nos.
are so inadequately supported by the description that no meaningful opinion could be formed.
X no international search report has been established for said claims Nos. 11-45, 49, 50, 52-55.
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:
the written form has not been furnished
does not comply with the standard
the computer readable form has not been furnished
does not comply with the standard
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
See Supplemental Box for further details.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

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Box No. IV Lack of unity of invention
1. X In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has:
paid additional fees
paid additional fees under protest
X not paid additional fees
2. This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
complied with
X not complied with for the following reasons:
Lack of unity of invention; overview of the inventions claimed:
Group (1): Claims 1 to 10 and 46 relate to a network, method and architecture for communicating instructions between at least two devices wherein selection means is provided for selecting an encoding protocol for the instructions from a set of available encoding protocols.
Group (2): Claims 11 to 14 relate to a virtual computer having an object stack or heap and an instruction set.
Group (3): Claims 15 to 18, 49 and 52 relate to a method, apparatus and computer program product for executing an instruction set using a virtual computer wherein the virtual computer is serialised to a data buffer in a first device and then transmitted to a second device.
Group (4): Claims 19 to 45, 47, 50 and 53 relate to a communications format, method, architecture, apparatus and computer program product for providing communications between two devices wherein the format has a first portion representing data and a second portion representing metadata.
*Claims 48 and 51 also relate to the invention of Group (1) in so far as they are appended to claims 8 to 10 and relate to the invention of Group (4) in so far as they are appended to claims 32 to 44. A comprehensive search of claims 48 and 51 would necessarily require two separate searches, a search for the invention of Group (1) and a search for the invention of Group (4).
Although all these inventions are applicable to the general field of networked computer systems there is no special technical feature common to all four sets of claims as required by Rule 13.2
4. Consequently, this opinion has been established in respect of the following parts of the international application:
all parts
the parts relating to claims Nos. 1 to 10 and 46, *and claims 48 and 51 in so far as they are appended to claims 8 to 10 only

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. Statement			
Novelty (N)	Claims	YES	
	Claims 1-10, 46, 48, 51	NO	
Inventive step (IS)	Claims	YES	
	Claims 1-10, 46, 48, 51	NO	
Industrial applicability (IA)	Claims 1-10, 46, 48, 51	YES	
	Claims	NO	

2. Citations and explanations:

D1: US-2003/0140180-A1 (BROWN et al.) 24 July 2003

D2: EP-0766172-B1 (SUN MICROSYSTEMS, INC.) 2 April 1997

D3: US-6578193-B1 (ADAMS) 10 June 2003

D4: US-2003/0009539-A1 (HATTORI) 9 January 2003

D5: US-6421733-B1 (TSO et al.) 16 July 2002

D6: WO-1998/006034-A1 (GENERAL MAGIC, INC.) 12 February 1998

D1 discloses a multi-protocol object distribution system. The system uses a meta-stub configured to select individual RPC transport protocol stubs from a plurality of available RPC transport protocol stubs. This system permits all objects, including instructions, to be encoded and transmitted according to a selected communication protocol. Claims 8 to 10, 48 and 51 are thereby disclosed.

D2 discloses a method of using generic stubs to selectively control the marshalling order of data bytes in an object to be transmitted on a distributed computer network. As described at column 10 line 1 to column 15 line 22 the method enables selective encoding of instructions by determining whether to encode an instruction in bigendian order little-endian order prior to transmitting the object from one computer to another. As such D2 discloses claims 1 to 7 and 46.

D3 discloses a loader for virtual machine instructions that determines the endian order of instructions at load time thereby obviating the need to perform endian correction on the instructions at run time. D3 does not teach or suggest selectively encoding instructions for communication from a front interface on one computer to a back interface on another computer. D3 is cited as background art only.

D4 discloses a method and system for performing method calls between objects in a distributed computer system having a plurality of communication protocols. The method and system involves the use of relay computers interposed between a client and a server. The relay computer has skeleton objects corresponding to stub objects of the client computer, and stub objects corresponding to skeleton objects of the server. The relay computer permits the client and the server objects to perform method calls via different communication protocols. D4 does not teach or suggest selectively encoding instructions for communication from a front interface on one computer to a back interface on another computer. D4 is cited as background art only.

D5 teaches a method of selectively 'transcoding' data transmitted from one computer to another. 'Transcoding' involves modifying the data of an object according to predetermined selection criteria (see examples listed at column 7 line 15 to column 8 line 9). D5 does not teach or suggest selectively encoding instructions for communication from a front interface on one computer to a back interface on another computer. D5 is cited as background art only.

Continued...